## 1HW Detector Switches

## Type: ESE23


#### Abstract

Bidirectional operation, midpoint auto-return Type




## - Features

- External dimensions : $4.1 \mathrm{~mm} \times 5.0 \mathrm{~mm}$, Height 1.5 mm
- Long over-travel (through-operation available)
- Usable as an operation switch (an input device)


## - Recommended Applications

- Detection of media in portable electronic equipment (CD-ROM, DVD, Digital still cameras, etc.)
- Operating switches for other electronic equipment.

Explanation of Part Numbers


Specifications

| Rating | $50 \mu \mathrm{~A} 3 \mathrm{Vdc}$ to 10 mA 5 Vdc (Resistive load) |
| :---: | :---: |
| Contact Resistance | $500 \mathrm{~m} \Omega$ max. (Initial) |
| Insulation Resistance | $100 \mathrm{M} \Omega \mathrm{min} .(100 \mathrm{Vdc})$ |
| Dielectric Withstanding Voltage | 100 Vac for 1 minute |
| Operating Force | 300 mN max. |
| Mounting Height | 1.5 mm |
| Poles and Throws | 1-pole 2-throws (OFF at midpoint) |
| Full Travel (Pushing distance) | With Boss $1.0 \mathrm{~mm}(1.5 \mathrm{~mm})$ <br> Without Boss $2.2 \mathrm{~mm}(1.5 \mathrm{~mm})$ |
| Operating Life | 50000 cycles min. |
| Temperature Range | $-10{ }^{\circ} \mathrm{C}$ to $+60{ }^{\circ} \mathrm{C}$ |
| Heat Resistance | $+70{ }^{\circ} \mathrm{C}$ for 96 hours |
| Low Temperature Resistance | $-25^{\circ} \mathrm{C}$ for 96 hours |
| Humidity Resistance | $+40{ }^{\circ} \mathrm{C} 90 \%$ to $95 \%$ RH for 96 hours |
| Minimum Quantity/Packing Unit | 4000 pcs. Embossed Taping (Reel Pack) |
| Quantity/Carton | 24000 pcs. |

Dimensions in mm (not to scale)


## Circuit Diagram

1-pole 2-throws (N. O)


## Packaging Specifications

Standard Reel Dimensions in mm (not to scale)


